

# **METHOD AND SYSTEM TO CONDUCT A COMBINATORIAL HIGH THROUGHPUT SCREENING EXPERIMENT**

## **Abstract of Disclosure**

In a method, factors are selected for an experiment and interactions among levels of the factors are estimated. A probability value of positive interactions is then assigned for each of the estimated interactions. A combinatorial high throughput screening (CHTS) method is effected on an experimental space representing the levels and the probabilities for each interaction are adjusted according to results of the CHTS method. A system for conducting an experiment includes a reactor for effecting a CHTS method on an experimental space to produce results and a programmed controller that stores an assigned probability value for estimated positive interactions between levels of factors of the experimental space and adjusts the probabilities for each interaction according to results of the CHTS method.

Figures

Figure 1: A diagram illustrating the relationship between the variables  $x$  and  $y$ . The horizontal axis is labeled  $x$  and the vertical axis is labeled  $y$ . A curve is plotted in the first quadrant, starting from the origin and increasing as  $x$  increases. The curve is labeled  $y = f(x)$ . The area under the curve is shaded and labeled  $\int_0^x f(t) dt$ . The curve is also labeled  $f(x)$ .